

WANNI et al. - 10/848,903  
Attorney Docket: P2003J053

IN THE ABSTRACT OF THE DISCLOSURE:

Please replace the Abstract of the Disclosure with the following:

A tube support device ~~or tube stake which is useful to support the tubes in the bundle and to mitigate the possibility of tube damage from flow-induced vibration in tube bundles in heat exchangers, condensers or other tube bundle equipment.~~ The tube stake comprises an elongated metal strip inserted in a tube lane between the tubes of the tube bundle. Raised-tube-engaging zones ~~such as dimples or longitudinal corrugations~~ are disposed in transverse rows across the strip at successive longitudinal locations along its length; these tube-engaging zones extend laterally outwards from both faces of the strip to engage with tubes on opposite sides of the tube lane. The tube-engaging zones may be ~~are preferably~~ arranged so that they extend from the two faces of the strip in an alternate manner, with the tube-engaging zones in each row alternately extending from one face and then from the other along the row. ~~This alternating arrangement within each transverse row is preferably used with a second alternating arrangement in which the raised tube engaging zones alternate from one side of the strip to the other at the same transverse location in successive rows.~~ The tube stakes ~~may be used in conventional rectangular or triangular tube formations with the stakes inserted into alternate tube lanes to provide support for the tubes on both sides of the tube lane.~~ Retention of the tube stakes within the tube bundle can be coupled with easier insertion by using dimpled zones at the outer ends of the stakes and corrugations at the inner ends.